Cognitive Science

COGS/PSYC 117-10 Cognitive Psychology (SS)  4 credits  CRN 45655
The architecture and dynamics of the human mind: How we acquire knowledge through perception, represent and activate it in memory, and use it to communicate, make decisions, solve problems, and reason creatively. May not be taken pass/fail. Prerequisite: PSYC 1 or COGS 7. Note: optional (1) credit recitation, PSYC 183, may accompany this course; Psych 183 is recommended but not required for COGS majors. Professor Marsh
T, R / 2:35 - 3:50 p.m.

COGS 161-10 Supervised Research (ND)  2-4 credits  CRN 40813
Research under the direct supervision of a faculty member in the cognitive science program. Students must arrange the particular project with a faculty member before enrolling. Prerequisite: consent of the program director. Professor O'Seaghdha

COGS/PHIL 250-10 Philosophy of Mind (HU)  4 credits  CRN 49562
An exploration of the mind-body problem. Are the body and mind distinct substances (dualism); or is there only body (materialism); or only mind (idealism)? Other views to be considered include behaviorism (the view that behavior can be explained without recourse to mental states), and the view that the mind is a complex computer. Prerequisite: One HU course in Philosophy. Staff
M, W, F / 11:10 – 12:00 p.m.

COGS 301-10 Senior Project in Cognitive Science: Proposal (ND)  3 credits  CRN 47470
Senior year integration of the material from cognitive science begins with the proposal of a substantial review or research project spanning at least two cognitive science disciplines under the direction of a Cognitive Science faculty member. Prerequisite: consent of program director. Professor O'Seaghdha

COGS 361-10 Independent Research (ND)  2-4 credits  CRN 40812
Independent research in cognitive science with a faculty advisor. Students must arrange the particular project with a faculty advisor before enrolling. Prerequisite: consent of the program director. Professor O'Seaghdha

COGS 399-10 Senior Project in Cognitive Science: Thesis (ND)  3 credits  CRN 48157
Research during senior year culminating in senior thesis advised by a member of the Cognitive Science faculty. Execution and written report of project proposed and approved in COGS 301. Theses submitted for honors will be evaluated by a committee of at least three cognitive science faculty. Prerequisite: COGS 301 and consent of the program director. Professor O'Seaghdha

COGS 405-10 Individual Study in Cognitive Science (ND)  1-6 credits  CRN 47471
Study of a topic not covered in regular course offerings. By arrangement with a consulting faculty member. May be repeated for credit. Prerequisite: Consent of the program director. Professor O'Seaghdha

Undergraduate Collateral Requirements

CSE 001  Breadth of Computing.................................................................T,R / 7:55 - 9:00 a.m., Prof Korth
(CRN 48342)
CSE 002-110  Fundamentals of Programming........................................M,W,F / 11:10 - 12:00 p.m., F 9:10 - 10:00 a.m., Prof Chen
(CRN 48343)
CSE 002-111  Fundamentals of Programming........................................M,W,F / 11:10 - 12:00 p.m., F 10:10 - 11:00 a.m., Prof Chen
(CRN 48344)
MATH 021  Calculus I ..........................................................Offered various days and times
(CRN varies by section)
MATH 051  Survey of Calculus I....................................................Offered various days and times
(CRN varies by section)

Undergraduate Electives

Artificial Intelligence and Formal Models:

CSE 017  Structured Programming & Data Structures (prereq: CSE 1 & CSE 2).....M,W,F / 11:10 - 12:00 p.m., Prof Heflin
(CRN 41495)
CSE/MATH 261  Discrete Structures (prereq: MATH 21).............................M,W,F / 3:10 - 4:00 p.m., Prof Skandera
(CRN 41610/40384)
CSE 262  Programming Languages (prereq: CSE 17 or CSE 18)....................T,R / 9:20 - 10:35 a.m., Prof Gang
(CRN 41621)
Artificial Intelligence and Formal Models: (continued)

CSE 318 Intro to Theory of Computation ......................................................... M, W, F / 1:10 - 2:00 p.m., Prof Munoz-Avila (CRN 43186)
CSE 337 Reinforcement Learning ................................................................. M, W, F / 10:10 - 11:00 a.m., Prof Munoz-Avila (CRN 49447)
CSE 360 Introduction to Mobile Robotics .................................................... T, R / 7:55 - 9:10 a.m., Prof Spletzer (CRN 49464)
PHIL/MATH 303 Mathematical Logic ......................................................... M, W, F / 10:10 - 11:00 a.m., Prof Stanley (CRN 49522/49520) Department permission required

Language, Culture & Meaning:

PHIL 297 Piaget and Mind .............................................................................. M / 1:10 – 4:00 p.m., Prof Bickhard (CRN 49291)
PSYC/HMS 344 Health Care Reasoning and Decision-Making ................ T, R / 10:45 - 12:00 p.m., Prof Marsh (CRN 49174/49193)
PSYC 351 Children's Thinking ................................................................. T, R / 2:35 - 3:50 p.m., Prof Brandone (CRN 49179)

Cognition and Neuroscience:

ANTH 145 Human Evolution ................................................................. M, W, F / 10:10 - 11:00 a.m., Prof Gatewood (CRN 49371)
BIOS 121 Comparative/Integrative Bio for Bios Minors ................................ M, W, F / 11:10 - 12:00 p.m., Prof Itzkowitz (CRN 49136)
BIOS 276 Central Nervous System and Behavior (prereq: BIOS 121) ................ T, R / 7:55 - 9:10 a.m., Prof Burger (CRN 46638)
BIOS 366 Diseases of the Nervous System ................................................. W / 1:10 - 4:00 p.m., Prof Simon (CRN 47808)
BIOS 382 Endocrinology of Behavior ....................................................... T, R / 1:10 - 2:25 p.m., Prof Schneider (CRN 40043)
PSYCH 396 Cognitive Neuroscience of Memory ....................................... M, W / 2:35 – 3:50 p.m., Prof Hupbach (CRN 48740)

Graduate Minor and Graduate Certificate Electives

Computer Science:

CSE 428 Semantic Web Topics ................................................................. T, R / 10:45 - 12:00 p.m., Prof Heflin (CRN 49470)
CSE 447 Data Mining .................................................................................. T, R / 1:10 - 2:25 p.m., Prof Lopresti (CRN 49455) Instructor Permission required
CSE 460 Mobile Robotics ............................................................................ T, R / 7:55 - 9:10 a.m., Prof Spletzer (CRN 49467)

Psychology:

PSYC 402 Developmental Psychology .................................................... R / 4:10 to 7:00 p.m., Prof Barrett (CRN 49182)

Major, Minor and Graduate Certificate Declaration forms are available in the Office of Interdisciplinary Programs, Maginnes 490